

SME
PUCP
PERU

ANNUAL REPORT 2020

PONTIFICAL CATHOLIC UNIVERSITY OF PERU

SOCIETY FOR MINING, METALLURGY & EXPLORATION

PREPARED BY:

SME STUDENT CHAPTER PUCP

SUBMITTED TO:

MONA VANDERVOORT

MAY 31, 2020

Mining | Costs | Environment | Quality | Energy | Safety

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SYNTHESIS

During this year, between 2019 and 2020, the Student Chapter of SME PUCP has become something more than the people who are part of the association, but also due to the new formal and recognized restructuring of the Pontifical Catholic University of Peru, that has been formulated by the current president Patricia Astete Huishuita with the support of the board of SME PUCP, as well as with the unconditional guidance of Mrs. Marisa Amico, is carrying out a new work plan that is progressively developing .

In this way, research projects have been advanced, since there is no continuous development of this, so one of the main focuses that have been prioritized in the projects and in the work plan this year is the incentive for the Research in the field of mining. Not only national but also international. This year several signs of progress have been made in the area of research and many more are being applied, as research is becoming increasingly consolidated due to the implementation of the new work plan.

Finally, the Chapter of students of SME PUCP has participated in several internal and external competitions of PUCP, in which research has been applied and has opened the doors to ideas of innovation for the mining sector. What comes in the future with respect to mining is somewhat uncertain, but as an association of students of the Student Chapter of SME PUCP seeks continuous improvement through knowledge, practice, research, interdisciplinary approaches and, above all, commitment as tools in which this group has worked. and will continue working, since the objective as professionals is to improve personnel and institutionally for a better development of mining.

Patricia Isabel Astete Huishuita

PRESIDENT



As President of the present directive of the 2019 period in SME student chapter of the "Pontifical Catholic University of Peru" - Faculty of Sciences and Engineering - Speciality Mining Engineering, I manifest and emphasize the commitment and responsibility of each of the members that make up the directive with the progress and objectives to be achieved related to the area of research, innovation, Latin American Congress, among others points that are specified in greater depth in the work plan to be carried in this 2019 period.

Investigation allows university students to acquire knowledge accord the new exigent global world. This aspect is the main important to go with the new mining world and increase its importance in these times.

Finally, each member present has a faithful commitment to the mining sector, in order to develop projects to provide solutions to mining companies in Peru. This way, it can be possible to generate a relationship between the university student and the mining company, which is important to solve problems of innovation and research at present.

Felix Alonso Jesus Alvarado Oliveros

VICE PRESIDENT



Thanks to the position within the board of SME, student chapter of the PUCP, I have been able to observe the different areas in which each of the committees that are part of our student association work, with which a plan has been drawn up. of work for this year that will encourage research and will generate that chapter members develop their skills to the fullest through the different areas offered by the student chapter. Once established the objective of our chapter in the university is that it also promotes interdisciplinary activity, a very important aspect in society today because doing a job requires different points of view in order to better analyze the problems and be able to present a solution, in that way either individually or collectively, it is best developed by working on their different skills that will then be required as a professional. All of the above is complemented by the participation of student members of the student chapter in the different internal and external competences of our university, the Pontifical Catholic University of Peru, which serve to measure the progress of our learning and at the same time see our position with regarding the competition that we can offer to others; All this has been possible and is still being developed thanks to the work plan that has and the commitment that each member of the SME PUCP Chapter has with himself and with the association, based on one of the objectives that the chapter shares with the members. That is the professional growth of each one with a look towards the future.

Joaquin Manuel Jara Luna

SECRETARY



As the secreary of the current year for the SME Student Chapter PUCP I am glad to reaffirm the commitment and the hard work that the members of this group have been doing along the past six months. We are working on a lot of projects to help students on the academic way, encouraging the res earch of topics related to mining and organizing the new congress for the next year.

The purpose of all this activities is to give tools to the community of mining in Peru and integrate it so we all can help to deal with the harsh conditions that the country is currently in.

In secretary, I reaffirm my commitment to carry out the necessary management and logistics to carry out the projects and activities scheduled during the year of my administration.

Maria Angela Cornelio

TREASURE



As treasurer of the current year in SME Student Chapter PUCP, I am pleased to reaffirm the commitment and hard work that the members of this group have been doing for the past six months. We are working on many projects to help students academically, as well as consolidating learning with technical visits and above all encouraging research on issues related to the mining sector.

The purpose of all these activities is to provide tools to the mining community in Peru to integrate it so that we can all help to face the different problems that the country is currently facing.

As I am in charge of the treasury, I recognize the great support of all the members, whose main axis is teamwork. With the position, I have a total commitment to have all the monetary aspects digitized and organized in a way that guarantees the policy of openness and good management of the resources in each action we carry out as SME SC PUCP.

Henry Luna Cordova

FACULTY SPONSOR



As Senior Professor of Mining Surveying of the Mining Engineering Section of the Faculty of Science and Engineering of the PUCP, support to the Society for Mining, Metallurgy & Exploration Student Chapter of the Pontifical Catholic University of Peru (SME Student Chapter PUCP), organization whose objective is to encourage research and scientific competence in the mining industry; as well as, disseminate new tools and technologies that allow the development of the sustainable mining industry in Peru, due to the hard work and commitment they show towards the fulfillment of their objectives.

In addition, I am committed to providing my support and advice for the development of projects included in the 2019 Work Plan.

Technical Visits

The committee in charge of this area is the "Field Trip Committee", the committee seeks that through technical visits, which are estimated in two visits per semester nationally and internationally, a university student can interact directly with the place of work for which he works. is preparing through their studies, for which mediates these visits that have the purpose of improving the experience of the members of the chapter of students in mining operations with a direct contact that also seeks to develop a network that supports the realization. of new projects and research.

Workshops and Trainings

This area has the objective of developing workshops and trainings that reinforce the theoretical and practical knowledge so that students are prepared for the realization of new research and development projects at present.

SME PUCP Assemblies

As the SME PUCP has progressed in the work plan, assemblies have been developed in which issues related to the vision projects are discussed. When promoting development, this student group requires weekly meetings to be informed about what has been working. Likewise, holding the assemblies favors the integration, exchange of opinions, ideas, create bonds and fraternize between colleagues to establish a solid base in the group and be able to work as one.

Colquisiri mining company' technical visit

The "Field Trip Committee", seeks that through technical visits, which are estimated to be two visits per semester nationally and one internationally.

At the moment one has a visit on May of the present year at Colquisiri mining company which is located in Huaral - Peru.

Complying with the first technical visit to a mining company of the semester. This technical visit is focused on the issue of drilling and blasting in underground mining.

The participating students will be under the charge of a professor specializing in drilling and blasting so that theoretical knowledge can be handled and recognized in the day-to-day work of underground mining.



Professional Profile in the Mining Field' Conference

Workshops and training are areas that reinforce the theoretical and practical knowledge to students. It has managed a conference under the charge of the current planning engineer at the mining company Volcan CIA Minera SAA, Engineer Renzo Portilla Salazar. This conference is focused on the "Professional profile in the mining field"

MINING | COSTS | ENVIRONMENT | QUALITY | TECHNOLOGY | ENERGY | SAFETY

SME STUDENT CHAPTER PUCP
CHARLA
PERFIL PROFESIONAL
EN EL ÁMBITO
MINERO

Ing. Renzo Portilla Salazar



- Actualmente labora como Ingeniero de Planeamiento en la Compañía Volcan Cia Minera SAA.
- Egresado de la Pontificia Universidad Católica del Perú en Ingeniería de Minas.
- Maestría en Geometalurgia en la Universidad Mayor de San Marcos (UNMSM)
- Ha dedicado más de 2 años a investigación metalúrgica en la Universidad de Ingeniería y Tecnología (UTEC)
- Realizó una pasantía en investigación en University of Delaware (USA).

FECHA: JUEVES 6 DE JUNIO
1:00 PM
LUGAR: AULA MGEO
Informes: grupo-sme@pucp.edu.pe

Mining and the Economic growth in Peru

SME Student Chapter PUCP arranged a workshop by Eng. Roque Benavides who is the president of Buenaventura Company Directory.

This conference is focused on the "Mining and the Economic Growth in Peru" in order to inform to the students the current situation of our country and the benefits that mining has given to the regions.



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SME STUDENT CHAPTER PUCP
CHARLA

**LA MINERÍA Y EL
CRECIMIENTO
ECONÓMICO EN EL PERÚ**

Ing. Roque Benavides Ganoza

- Actualmente es Presidente del Directorio de la Compañía de Minas Buenaventura S.A.A.
- Expresidente de la Confederación Nacional de Instituciones Empresariales Privadas – CONFIEP.
- Director de la Sociedad Nacional de Minería, Petróleo y Energía desde 1988, habiendo ejercido el cargo de Presidente de la misma entre 1993 y 1995.
- Egresado de la Pontificia Universidad Católica del Perú.



Informes: grupo-sme@pucp.edu.pe
Fecha: 27 de Agosto
Lugar: 201 en Pabellón A
Hora: 5:00 PM

Chaquicocha Underground Project - Minera Yanacocha

In order to visit a Yanacocha mine in Cajarmca, the Student Chapter organized a workshop to inform about the new projects of the mine, underground area and open pit area. This event gave the students other technical perspectives to elaborate questions and solve doubts.

SME STUDENT CHAPTER PUCP

CHARLA INFORMATIVA:
**PROYECTO
CHAQUICOCHA
UNDERGROUND -
MINERA YANACOCHA**

EXPOSITOR:
MARCO JAUREGUI VARGAS
Superintendente de Operaciones Subterráneas de
Minera Yanacocha SRL

FECHA: JUEVES 24 DE
OCTUBRE
HORA: 10:00 AM
LUGAR: MGEO-SECCIÓN
MINAS

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informes:grupo-sme@pucp.edu.pe



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Yanacocha



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Compañía Minera Yanacocha Technical Visit

The "Field Trip Committee", in order to achieve goals, managed to establish a relationship with Newmont Mining Corporation. In this case, we could visit Yanacocha mine in Cajamarca, Peru. This is the second technical visit to a mining company. It was focused on the new underground area and the open pit area.

The participating students will be under the charge of a professor Luis Mendieta specializing in drilling and blasting so that theoretical knowledge can be handled and recognized in the day-to-day work of underground mining.



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Yanacocha



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Yanacocha Mine - Open Pit Area



Yanacocha Mine - Underground Area



Underground Mining Digitization

SME Student Chapter organized this workshop focused in Underground Mining Digitization. This event was managed under the charge of Eng. Johan Carpio, who is the Underground Mining Specialist at Sandvik.



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SANDVIK

TEMA:
“DIGITALIZACIÓN
EN MINERÍA
SUBTERRÁNEA”
CASOS DE ESTUDIO

INGRESO
LIBRE!!!

FECHA:
21 NOV.

HORA: 12:00 PM
LUGAR: LABORATORIO
MGEO PUCP

EXPOSITOR:
ING. JOHAN
CARPIO
Underground Mining
Specialist at Sandvik

INFORMES: grupo-sme@pucp.edu.pe

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Visit the SME Annual Conference 2020

The "Field Trip Committee" of the SME Student Chapter PUCP ensures the learning of the members, in order to promote the academic aspect, a visit was made to the SME Annual Conference 2020 in which our partners could obtain current knowledge according to the needs of the mining industry of the current world. Therefore, the same activity has been carried out for 2021.



SME PUCP' s Active Members

In the Student Chapter PUCP we value and recognize the effort and dedication of all our members, especially those who are part of the projects and remain constant with our objectives.

- Astete Huishuita, Patricia Isabel
- Alvarado Oliveros, Felix Alonso Jesus
- Cornelio Curimania, Maria Angela
- Chavez Sacaico, Ytamar Adrian
- Jara Luna, Joaquin Manuel
- Romaní Navarro, Gian Piero
- Manyari Jimenez, Jean Michael
- Perez Obando, Nick Andrew
- Pulcha Villalobos, Christian Ronaldo
- Vasquez La Rosa, Luis Andres
- Gauna Achata, Jhoel Andy
- Astuyauri Rosado, Diego Ernesto

Student Chapter Information Sheet

Date	22 de Mayo del 2019		
Student Chapter Name	PUCP – Pontificia Universidad Católica del Perú		
Chapter's Campus Mailing Address	Av. Universitaria 1801, San Miguel 15088		
Chapter's Telephone	6282000		
Fax	---		
E-mail	grupo-sme@pucp.pe		
Website	https://www.facebook.com/SME-Student-Chapter-PUCP-485953101506752/		
Chapter Officers			
Date Terms Begin	18/03/19	Date Terms Expire	18/03/20
President	Patricia Isabel Astete Huishuita		
Vice President	Félix Alonso Jesus Alvarado Oliveros		
Secretary	Joaquín Jara Luna		
Treasurer	María Angela Cornelio Curimania		
Student Chapter Representatives			
Subcommittee Representatives: Operations	Mr. Gian Piero Romani Navarro		
Committee (Program and Field trips)	Mr. Renzo Chino Andrade		
Human Resources (Membership Development)	Joaquín Jara Luna		
Marketing committee (Publicity)	Mr. Diego Ernesto Astuyauri Rosado		
Other: (Include full title) Research Program	Mr. Ytamar Adrian Chavez Sacaico		
Faculty Sponsor			
Sponsor Name	Henry John Luna Córdova		
Sponsor's Mailing Address	Avenida Canada 1470 – San Borja		
Sponsor's E-mail	luna.h@pucp.edu.pe		
Telephone	(51-1)618 9801		
Fax	(51-1)225-4540		
Local Section Counselor			
Local Section Counselor Name	Santa Cruz Bendezu, Carlos Enrique		
Counselor's Mailing Address	---		
Counselor's E-mail	carlossantacruz23@gmail.com		
Counselor's Telephone	---		
Counselor's Fax	---		

Date	13/04/2020		
Student Chapter Name	SME Student Chapter PUCP		
Chapter's Campus Mailing Address	Av. <u>Universitaria</u> 1801 – San Miguel, 15088		
Chapter's Telephone	+516262000		
Fax	-----		
E-mail	grupo-sme@pucp.edu.pe		
Website	https://www.facebook.com/SME-Student-ChapterPUCP-485953101506752/		
Chapter Officers			
Date Terms Begin	13/04/2020	Date Terms Expire	18/03/2021
President	Felix Alonso <u>Jesus</u> Alvarado Oliveros		
Vice President	Joaquin Manuel <u>Jara</u> Luna		
Secretary	Luis <u>Andres</u> Vasquez La Rosa		
Treasurer	Christian Ronaldo <u>Pulcha</u> Villalobos		
Student Chapter Representatives			
Committee (Program and Field trips)	Mr. Diego Ernesto <u>Astuyauri</u> Rosado		
Human Resources (Membership Development)	Mr. Nick Andrew Perez <u>Obando</u>		
Marketing committee (Publicity)	Mr. <u>Jhoel</u> Andy Gauna Achata		
Academic committee	Mr. <u>Maria Angela</u> Cornelo Curimania		
Faculty Sponsor			
Sponsor Name	Henry John Luna Cordova		
Sponsor's Mailing Address	Av. Canada 1470 – San Borja		
Sponsor's E-mail	luna.h@pucp.edu.pe		
Telephone	+51 6189801		
Fax	+51 2254540		
Local Section Counselor			
Local Section Counselor Name	Carlos Enrique Santa Cruz <u>Bendezu</u>		
Counselor's Mailing Address	---		
Counselor's E-mail	---		
Counselor's Telephone	carlossantacruz23@gmail.com		
Counselor's Fax	---		

As the association has grown, the group of students watches over the continuous improvement in the research, motivating the members to have an integral development oriented to the mining industry, without neglecting the socio-environmental aspect, which is very important to establish good relationship with the community and reduce the environmental impact.

One of the largest projects to be carried out, Compañía Minera Yanacocha Technical Visit, the area in charged has been looking to support students in their knowledge and promoting the academic growth.

Likewise, workshops and trainings will be developed for students and will allow them to grow in the academic and professional fields.

In addition, SME PUCP Research has found that it is necessary to look for new ways to raise knowledge of mining in the world. For this, the group of students organized several workshop and training for student to given them new opportunities for academic growth.

On the other hand, the "Field Trip Committee" has looked for ways to support members in the search for work experience; For this reason, a visit to the Compañía Minera Colquisiri S.A. on June 13.

In addition, the group of students, for continuous improvement, decided to establish a calendar for the celebration of assemblies where they can report on what has been worked on and establish the achievements that are being achieved. This seeks to promote the integration of the group for a better development of the work plan.

Finally, SME PUCP seeks the continuous improvement of its members in order to obtain a better development in the academic and professional environment where students are concerned about academic research formed by solid foundations of the student group.

EXECUTIVE COMMITTEE

Faculty Sponsor

Henry John Luna Córdova

SME Latin America Manager

Ms. Marisa M. de Amico

President

Ms. Patricia Isabel Astete Huishuita

Vice President

Mr. Félix Alonso Jesús Alvarado Oliveros

Secretary

Mr. Joaquin Manuel Jara Luna

Treasurer

Ms. Maria Ángela Cornelio Curimania

COMMITTEE REPRESENTATIVES

Research Program Committee

Mr. Ytamar Adrian Chavez Sacaico

Field Trip Committee

Mr. Renzo Chino Andrade

Membership Development Committee

Mr. Joaquín Jara Luna

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FECHA: JUEVES 6 DE JUNIO
1:00 PM
LUGAR: AULA MGEO
Informes: grupo-sme@pucp.edu.pe

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CHAQUICOCHA
UNDERGROUND -
MINERA YANACOCHA**

EXPOSITOR:
MARCO JAUREGUI VARGAS
Superintendente de Operaciones Subterráneas de
Minera Yanacocha SRL

FECHA: JUEVES 24 DE
OCTUBRE
HORA: 10:00 AM
LUGAR: MGEO-SECCIÓN
MINAS

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informes:grupo-sme@pucp.edu.pe



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Yanacocha



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Yanacocha



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Yanacocha Mine - Open Pit Area



Yanacocha Mine - Underground Area



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FECHA:
21 NOV.

HORA: 12:00 PM
LUGAR: LABORATORIO
MGEO PUCP

EXPOSITOR:
ING. JOHAN
CARPIO
Underground Mining
Specialist at Sandvik

INFORMES: grupo-sme@pucp.edu.pe

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- Gauna Achata, Jhoel Andy
- Astuyauri Rosado, Diego Ernesto

EXECUTIVE COMMITTEE

Faculty Sponsor

Henry John Luna Córdova

SME Latin America Manager

Ms. Marisa M. de Amico

President

Ms. Patricia Isabel Astete Huishuita

Vice President

Mr. Félix Alonso Jesús Alvarado Oliveros

Secretary

Mr. Joaquin Manuel Jara Luna

Treasurer

Ms. Maria Ángela Cornelio Curimania

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Field Trip Committee

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Membership Development Committee

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